

**EAST Search History****EAST Search History (Prior Art)**

| Ref # | Hits     | Search Query   | DBs                                 | Default Operator | Plurals | Time Stamp          |
|-------|----------|--|-------------------------------------|------------------|---------|---------------------|
| S53   | 6        | current\$1 SAME boost\$4<br>SAME operational SAME<br>amplifier\$3 SAME capacitor<br>\$3 SAME resistor\$3 SAME<br>((gate   row) WITH driver)  | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2010/11/04<br>14:49 |
| S52   | 115      | S50 & S51  | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2010/11/04<br>14:47 |
| S51   | 13456385 | @ad< "20030331"  | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2010/11/04<br>14:46 |
| S50   | 192      | current\$1 SAME boost\$4<br>SAME operational SAME<br>amplifier\$3 SAME capacitor<br>\$3 SAME resistor\$3   | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2010/11/04<br>14:46 |
| S49   | 441      | current SAME boost SAME<br>operational SAME amplifier  | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2010/11/04<br>14:46 |
| S48   | 4        | S46 & S47  | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2010/11/04<br>10:53 |
| S47   | 25       | (US-20030090449-\$ or US-<br>20040150605-\$ or US-<br>20040189583-\$ or US-<br>20010030645-\$ or US-<br>20030164813-\$ or US-<br>20030179173-\$).did. or<br>(US-6671009-\$ or US-<br>5977944-\$ or US-6160535-<br>\$ or US-6473077-\$ or US-<br>6396469-\$ or US-6753835-<br>\$ or US-6791523-\$ or US-<br>6819311-\$ or US-6909304-<br>\$ or US-6963328-\$ or US-<br>5764207-\$ or US-5883609-<br>\$ or US-5793346-\$ or US-<br>5986649-\$ or US-4630122-<br>\$ or US-5448260-\$ or US-<br>5166671-\$ or US-6717559-<br>\$ or US-5534889-\$).did. | US-<br>PGPUB;<br>USPAT              | OR               | ON      | 2010/11/04<br>10:53 |

|     |          |   |                            |    |    |                  |
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| S46 | 2310     | current SAME (increas\$4   boost\$4) SAME gate SAME ((pulse NEAR4 width)   PWM) | US- PGPUB; USPAT; EPO; JPO | OR | ON | 2010/11/04 10:53 |
| S45 | 15       | S41 & S44   | US- PGPUB; USPAT; EPO; JPO | OR | ON | 2010/10/26 13:22 |
| S44 | 64591    | S42 & S43   | US- PGPUB; USPAT; EPO; JPO | OR | ON | 2010/10/26 13:22 |
| S43 | 13456244 | @ad<"20030331"  | US- PGPUB; USPAT; EPO; JPO | OR | ON | 2010/10/26 13:22 |
| S42 | 121236   | "345"/\$.ccls.  | US- PGPUB; USPAT; EPO; JPO | OR | ON | 2010/10/26 13:21 |
| S41 | 2305     | current SAME (increas\$4   boost\$4) SAME gate SAME ((pulse NEAR4 width)   PWM) | US- PGPUB; USPAT; EPO; JPO | OR | ON | 2010/10/26 13:21 |
| S40 | 2411     | (345/100).ccls.   | US- PGPUB; USPAT; EPO; JPO | OR | ON | 2010/04/20 12:56 |
| S39 | 508      | (345/691-693).ccls.   | US- PGPUB; USPAT; EPO; JPO | OR | ON | 2010/04/20 12:56 |
| S38 | 467      | (345/691-693).ccls.   | US- PGPUB; USPAT; EPO; JPO | OR | ON | 2009/09/17 12:05 |
| S37 | 2275     | (345/100).ccls.   | US- PGPUB; USPAT; EPO; JPO | OR | ON | 2009/09/17 12:05 |
| S36 | 364      | (345/691-693).ccls.   | US- PGPUB; USPAT; EPO; JPO | OR | ON | 2007/10/01 16:38 |
| S35 | 1803     | (345/100).ccls.   | US- PGPUB; USPAT; EPO; JPO | OR | ON | 2007/10/01 16:38 |

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| S34 | 1596  | (345/100).ccls.  | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/01/30<br>17:23 |
| S33 | 336   | (345/691-693).ccls.  | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/01/30<br>17:23 |
| S32 | 1352  | (345/100).ccls.  | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2006/05/17<br>15:03 |
| S31 | 289   | (345/691-693).ccls.  | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2006/05/17<br>15:03 |
| S30 | 140   | S18 & S29  | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/11/22<br>12:41 |
| S29 | 581   | current & blank\$3 & ((pulse NEAR2 width NEAR2 modulat\$4)   PWM) & (LCD   liquid NEAR2 crystal) | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/11/22<br>12:41 |
| S25 | 220   | S18 & S24  | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/11/22<br>12:41 |
| S24 | 2020  | current & blank\$3 & ((pulse NEAR2 width NEAR2 modulat\$4)   PWM)                                | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/11/22<br>12:41 |
| S23 | 1     | "6671009".pn.  | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/11/22<br>12:37 |
| S22 | 89    | S18 & S21  | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/11/22<br>10:00 |
| S21 | 6134  | (charge\$2 NEAR3 pump \$3) SAME (gate   scan)  | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/11/22<br>09:44 |
| S19 | 22583 | charge\$2 NEAR3 pump\$3  | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/11/22<br>09:41 |

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| S18 | 69209   | ("345"/\$).ccls.   | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/11/22<br>09:37 |
| S17 | 16      | S14 & S16  | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/11/21<br>14:46 |
| S16 | 69156   | ("345"/\$).ccls.   | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/11/21<br>14:46 |
| S14 | 786     | S12 & S13  | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/11/21<br>14:46 |
| S13 | 47866   | pulse WIDTH width WIDTH<br>modulat\$4  | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/11/21<br>14:45 |
| S12 | 7913    | (operation\$3 NEAR2 amplif<br>\$4) SAME (resistor\$1)<br>SAME (capacitor\$1) SAME<br>(transistor\$1) | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/11/21<br>14:45 |
| S10 | 88      | S5 & S9  | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/11/21<br>14:44 |
| S11 | 1       | "20030090449".pn.  | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/11/21<br>13:21 |
| S8  | 290890  | liquid NEAR2 crystal   | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/11/21<br>12:59 |
| S9  | 84407   | S7 & S8  | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/11/21<br>12:58 |
| S7  | 1923009 | current  | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/11/21<br>12:57 |
| S6  | 1262    | (345/100).ccls.  | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/11/21<br>12:57 |

|    |        |                     |                                     |    |    |                     |
|----|--------|---------------------|-------------------------------------|----|----|---------------------|
| S5 | 269    | (345/691-693).ccls. | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/11/21<br>12:57 |
| S2 | 1262   | 345/100.ccls.       | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/11/21<br>12:57 |
| S4 | 186    | S2 & S3             | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/11/21<br>09:54 |
| S3 | 298627 | blank\$4            | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/11/21<br>09:54 |
| S1 | 1      | "20040189583".pn.   | US-<br>PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/11/18<br>13:36 |

**EAST Search History (Interference)**

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**11/4/2010 4:59:18 PM****C:\Documents and Settings\kxiao\Desktop\My Workspaces\kx10625287.wsp**